

Early Generation Seed

Country: Uganda

	Profile Element	Response
1	Focus crops for EGS evaluation	<ol style="list-style-type: none"> 1. Maize 2. Rice 3. Bean 4. Cassava
2	Authorized seed classes in the country	Pre-basic, basic and certified seed, as defined in Seed and Plants Act, and specified in the National Seed Policy of 2018 in line with OECD. QDS is listed in the Policy.
3	Description of legally permitted EGS production entities	National Agricultural Research Organization (NARO) established under the National Agricultural Research Act. NARO has several national and zonal institutes. The law does not specifically mention variety development as one of NARO's functions. It only mentions agricultural research broadly. The Act also allows Universities, and the private sector to conduct agricultural research
4	Government entities (and location) producing EGS by focus crop	EGS production for all four crops maize, bean, rice and cassava is undertaken at National Crops Resources Research Institute (NaCRRRI), an institute of NARO. Location is Namulonge. NARO has also established a commercial arm called NARO Holdings to assist with the production and sale of basic seed.
5	Presence of seed demand forecasting at the government institutional level	no system for seed demand forecasting
6	Number of full-time breeders (note crop) and technicians by government EGS faculty	Maize (5); Bean (2)
7	Private sector and other non-government entities (and location) producing EGS in the country	Maize: No entity; Bean: NARO Holdings is the only other entity producing EGS in Uganda for bean
8	Estimated sources of EGS for focus crops for certified seed producers (% of total), e.g., importation from own company, specialized EGS company, CG centres, own local production, NARS, other certified seed company, etc.	Maize: NARO (50%); CIMMYT (30%); QBS (12%); Own (4%). Bean: NARO (93%); NARO Holdings (7%). This data is the % of seed companies sourcing basic seed from each source. The source of information is TASAI Uganda 2020
9	EGS seed volumes, by crop and seed class, for the last four years	Beans: 61.77 Mt of prebasic and 712.83 Mt of basic

10	Adequacy of government-held nucleus and breeder seed available for EGS production	Maize & Bean: (i) Breeder seed is inadequate because NARO lacks sufficient funds to produce adequate volumes of breeder seed. Sometimes production is dependent on donor projects. (ii) the cold storage facility is small. (iii) another challenge is that some seed companies tend to recycle breeder seed instead of sourcing a new stock every season.
11	Adequacy of EGS for commercial seed production, estimated % of the demand met	54% of maize seed companies and 43% of bean seed companies reported that they received the quantity of basic seed that they requested in 2020. Source: TASAI Uganda report.
12	Evidence of standardized descriptors for parental lines for focus crops	<i>missing information for all crops</i>
13	General status of line maintenance for key varieties of focus crops, to enable proper ongoing EGS production	Maintenance of all key bean varieties is routinely undertaken but lines alternated for each season due to limitations with funding <i>missing information for all crops</i>
14	Infrastructure in place to support government EGS production - land for multiplication, irrigation, cold storage, QC labs, etc.	<i>missing information for all crops</i>
15	Infrastructure in place to support private-sector EGS production - land for multiplication, irrigation, cold storage, QC labs, etc.	<i>missing information for all crops</i>
16	Implementation status of national QA for locally produced EGS	Locally produced EGS is inspected by NARO. National Seed certification Service (NSCS) the seed inspection department under the Ministry of Agriculture, does not inspect EGS. It only inspects certified seed.
17	Information about quality / effectiveness of national efforts to implement QA for imported EGS	Most seed companies that maintain their own EGS from their mother seed companies, only import certified seed. EGS importers include CGIAR centres and seed companies, for the purpose of variety release in the country.
18	Working status of pre-ordering and payment systems for EGS for focus crops	System exists. Seed companies are required to pre-order one season (or 6 months) in advance of the collection date. NARO signs MoU with seed company. Down payment of 30%-40% is made in advance.
19	Working status of certified seed producer allocation systems for EGS for focus crops	There is no allocation system for seed companies that intend to obtain EGS from NARO. To access basic seed, seed companies write to the Director of the Research Institute, specifying the details of the basic seed that is requested. Any registered seed company can apply to obtain basic seed.

20	Timely availability of up-to-date information on government websites for EGS availability, ordering and payment	no information available on government (Ministry of Agriculture or NARO) website
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